

CLAIMS

We claim:

1 1. A device for temporary replacement of an auger carrier
2 bearing on an auger conveyor system, the conveyor system having
3 a flanged auger tray defining a trough and an auger having a
4 shaft supported in the trough by a plurality of bearings, the
5 device comprising:

6 a U-bolt having an arch and two threaded legs extending
7 from opposite ends of the arch, the threaded legs being adapted
8 for attachment to a bearing mounting plate extending above the
9 trough;

10 a strap having an upper surface and a lower surface, and
11 having openings defined therein aligned with the threaded legs
12 of the U-bolt, the strap being removably disposed on the
13 threaded legs;

14 a lubrication pad attached to the lower surface of the
15 strap; and

16 a lubrication strip attached to the arch of the U-bolt;

17 whereby the U-bolt is attachable to the bearing mounting
18 plate with the auger shaft supported by the U-bolt and with the
19 lubrication strip and the lubrication pad bearing on

20 diametrically opposite sides of the auger shaft in order to
21 support the auger in the trough.

1 2. The device for temporary repair of auger carrier
2 bearings according to claim 1, further comprising a pair of nuts
3 disposed on the threaded legs below said strap and a pair of
4 nuts disposed on the legs above said strap in order to snugly
5 secure the strap against the shaft of the auger.

1 3. The device for temporary repair of auger carrier
2 bearings according to claim 1, wherein the arch of the U-bolt
3 has a rectangular cross section.

1 4. The device for temporary repair of auger carrier
2 bearings according to claim 1, wherein the lubrication pad is
3 made of self-lubricating plastic.

1 5. The device for temporary repair of auger carrier
2 bearings according to claim 1, wherein the lubrication strip is
3 made of self-lubricating plastic.

1 6. The device for temporary repair of auger carrier
2 bearings according to claim 1, further comprising a spacer
3 disposed between the lubrication pad and the lower surface of the
4 strap.

1 7. The device for temporary repair of auger carrier
2 bearings according to claim 1, further comprising a bearing
3 mounting plate adapted for attachment to the auger tray above
4 the trough, said U-bolt being removably attached to the bearing
5 mounting plate.

1 7. A method of temporarily replacing an auger carrier
2 bearing comprising the step of placing the device for the
3 temporary replacement of auger carrier bearings according to
4 claim 1 on either side of a failed auger carrier bearing.